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L702 L703

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UK CL (Edition J) A4L LAM LBPB LCC  
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## (54) Anglers bed chair

(57) This invention relates to an angler's bed chair which is designed for use where the ground is sloping or uneven.

The bed chair has spring-loaded legs which are each slidingly adjustable in height with a locking device to fix the leg in a desired position. The back section (1) is adjustable with a spring-loaded pawl and ratchet mechanism. The foot section (25) is foldable and when opened out lies in the same plane as the seat section (2).

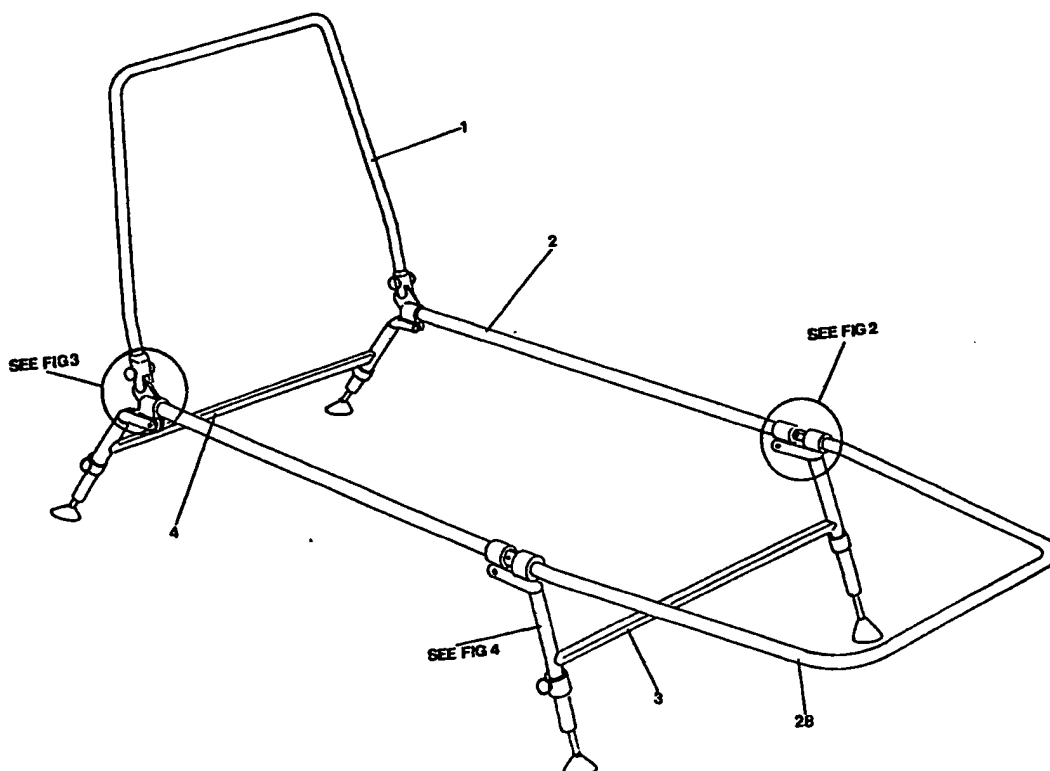


FIG1

The claims were filed later than the filing date within the period prescribed by Rule 25(1) of the Patents Rules 1982.

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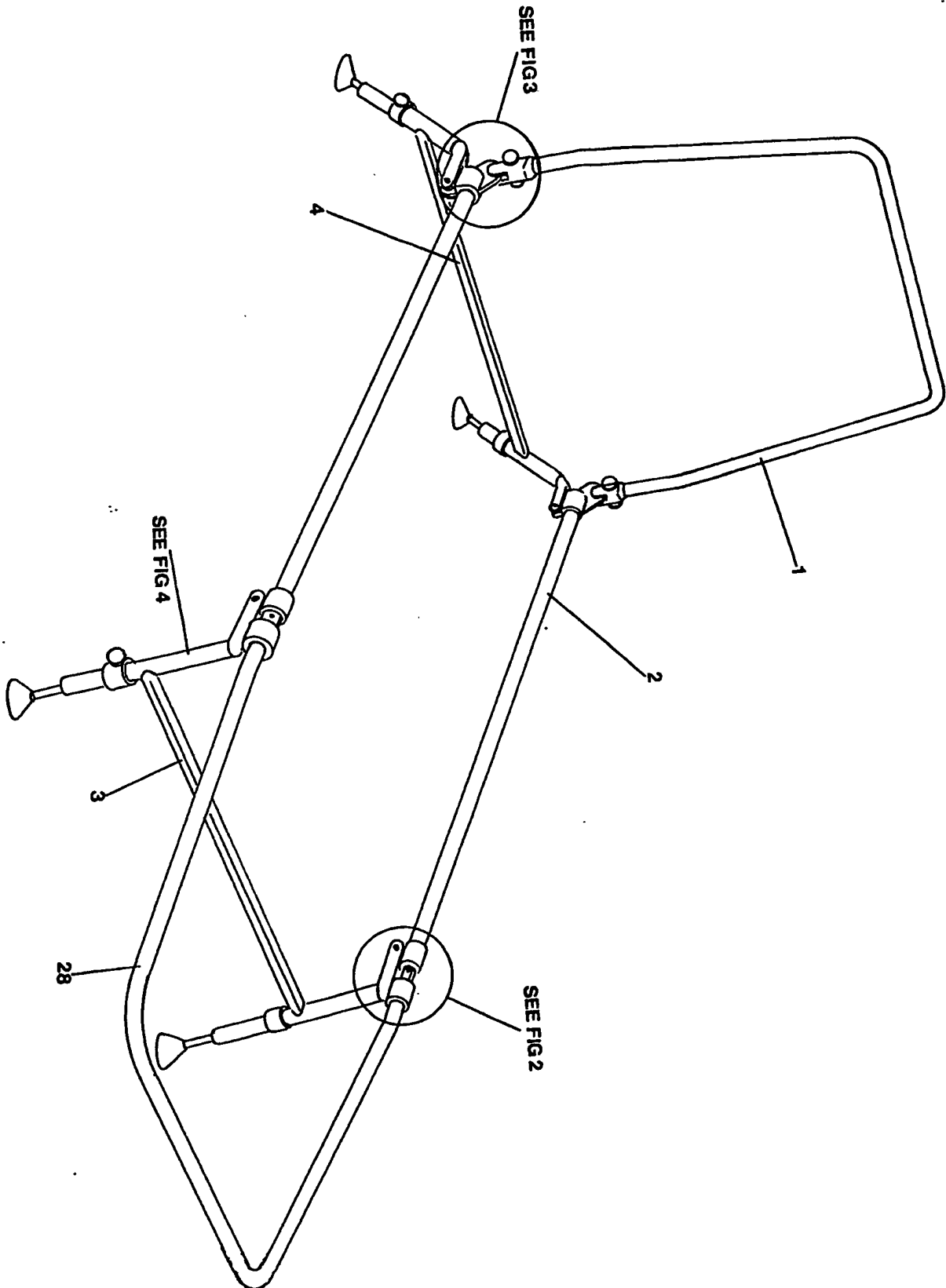


FIG 1

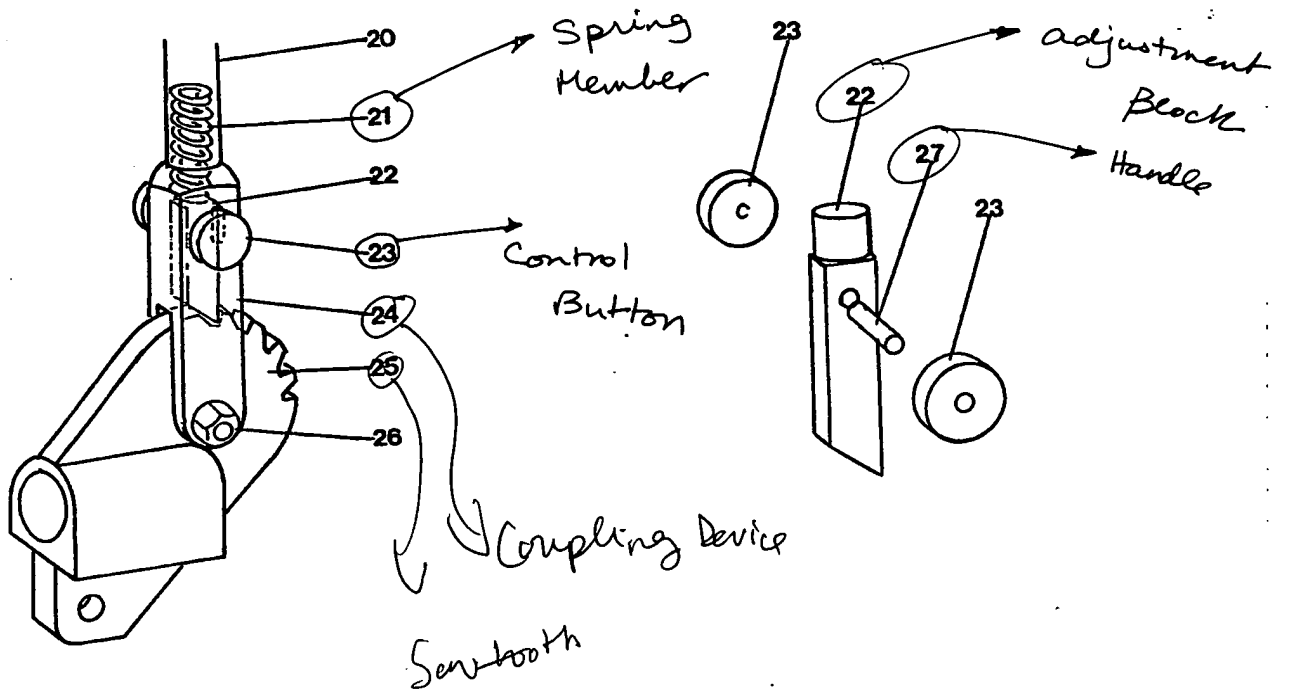


FIG3

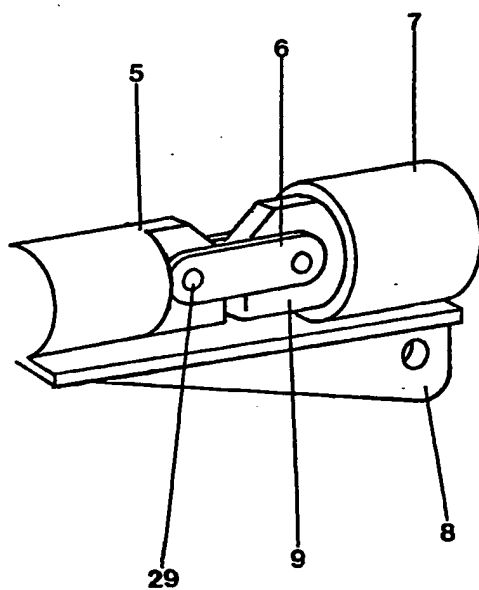


FIG2

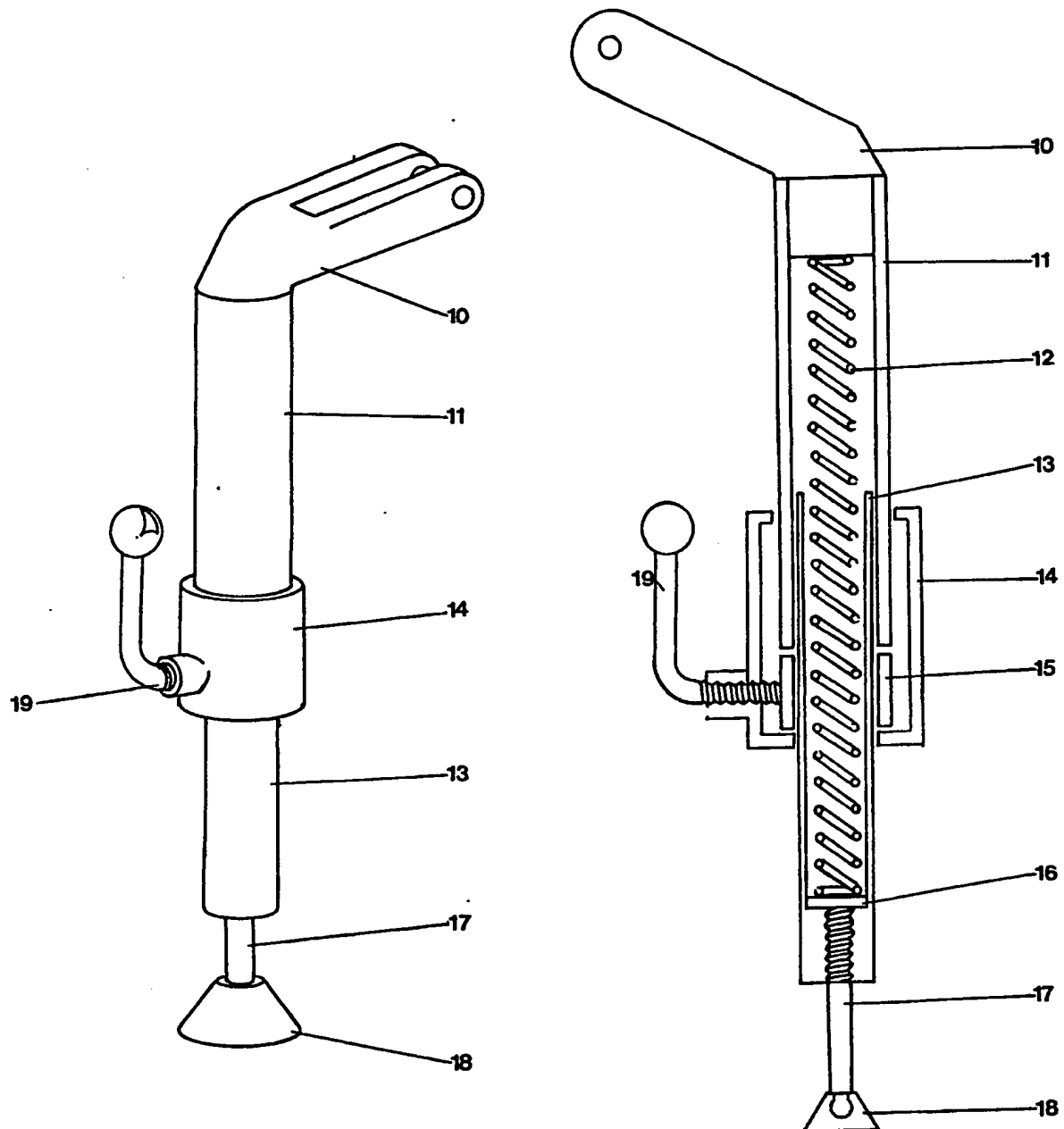


FIG4

ANGLERS BEDCHAIR

0           This invention relates to an anglers bedchair, used where many hours are spent fishing for large freshwater fish such as carp.

          A purpose designed bedchair is currently manufactured.  
5   This has adjustable legs to allow for levelling on uneven ground. The adjustment is not infinite and is very awkward to achieve, especially in winter weather when the anglers hands are very cold and the device may have to be manually picked up for adjustment.

10           The proposed invention seeks to, and gives, a major degree of "self levelling" and very significantly up dates the adjustment with minimum effort by the user.

          When the angler arrives at his chosen place to fish, the bed chair is opened out at the head and foot ends giving a large  
15   area to lie on. The legs are brought down into position and the angler merely releases the leg locking devices. The spring loaded legs eject downwards lifting the chair. It is then a simple matter to push down on the highest point and lock the legs into position.

20           The spring loaded legs perform a two fold function

(1) They give a self levelling aspect to the bed chair.

(2) The UPWARDS force of the springs equals that of the DOWNWARD force of the occupant thus requiring only a minimal locking force which by design is only just greater than the difference between the two, ~~previous~~

The ends of the lgs may be fitted with large diameter swivel pads to prevent sinking into soft ground.

The back rest position of the chair incorporates a device for easy adjustment whilst the angler is actually sitting on the bed chair. He simply pulls the back up and it springs into the next position.

The front rest (foot) position incorporates a device to allow the rim of the frame to be in a level plane to the bed chair main frame, existing bed chairs have a large and protruding mechanism which allows the foot position to be higher than the frame and uses a large uncomfortable mechanism which hits the anglers knees when in use.

Examples of a bedchair made in accordance with the proposed invention are illustrated by the following drawings:-

- 15 Fig. 1. Perspective view of an anglers bedchair.
- Fig. 2. Gives details of the front (foot) position giving a level rimmed top frame when in the "use" position.
- Fig. 3. Gives details on an adjustable back arrangement.
- 20 Fig. 4. Gives constructional details of an adjustable leg arrangement.

Fig. 1 describes the main constructional details of the  
b d chair, two side rails (2) are separated by the leg  
assemblies (3 & 4), the back adjustment mechanism (Fig. 3) and  
the leg locking mechanism (Fig. 2 & 3) and the front levelling  
5 (foot) section (Fig. 4) are shown.

The leg unit may have a square box section cross member  
welded to tubular legs.

The main framework may be constructed from tubular steel  
or aluminium.

10 The leg locking devices (Fig. 4) mounted front and rear  
on the cross members (3 & 4) may be from cast aluminium.

When folded the chair can easily be carried due to the  
size and lightweight construction.

Fig. 2 gives details of the front (foot) levelling  
15 device. This is not normally angularly adjustable and the  
mechanism described gives a means to open out the foot portion  
of the chair, giving a level rimmed frame. The foot portion  
(see Fig. 2) is pivoted about the two parallel plates (6)  
mounted between the front leg mechanism (7 & 8) and the foot  
20 portion, the two pins (29) (each side of the chair) allow the  
foot position to be either

(a) folded over for carrying.

(b) give a level frame when in the operational  
position.

0           This mechanism gives a level rimmed top to the bed chair when in use, the foot position (20) rests upon the front leg mechanism casting (8) to support it and the anglers weight.

5           Fig. 3 gives details of a back adjustment mechanism, the spring (12) and peg (22) are held in position by the cross pin (27). This is connected to the two knobs (23) each side of the main lever body (24), the ratchet mechanism on the rear leg housing (25) is used to hold all the components. To adjust the back (20) of the chair the angler merely pulls up the rear  
10 position whilst still sitting on the chair, the ratchet mechanism moves up to the next ratchet position. To lower the back the knobs (23) are slid outwards and the back lowered to the desired position.

15           Fig. 4 gives details of the leg adjustment mechanism, a spring (12) pushes downwards on the inside leg tube (B) which normally expands the leg to the fully extended position, the locking collar (15) is held in place by the locking lever (19). The leg is merely pushed in to the desired position and locked into place.

20           The swivel foot (18) gives anti sink protection for use on uneven ground.



CLAIMS

- 0 (1) An Anglers bed chair having four infinitely adjustable legs which can be locked into any position along the leg length, to allow the bed chair to present a level plane to the user.
- 5 (2) An Anglers bed chair according to Claim 1 that uses spring loaded legs to give an upward force equal to the downward force of the occupant, the legs being able to be locked into position when the bed chair is level.
- 10 (3) An anglers bed chair to give easy self levelling adjustment as Claim 1 & 2.
- (4) An anglers bed chair having a level rimmed front position using a cantilever or similar device to enable this to be on the same plane as the side rails.
- 15 (5) An anglers bed chair having a back adjustment which allows the occupant to higher the rear position whilst in use.
- (6) An anglers bed chair having a ratchet adjustment as in Claim 5.
- 20 (7) An anglers bed chair which can be used as a chair by either folding foot portion or eliminating in accordance with Claims 1 to 6.